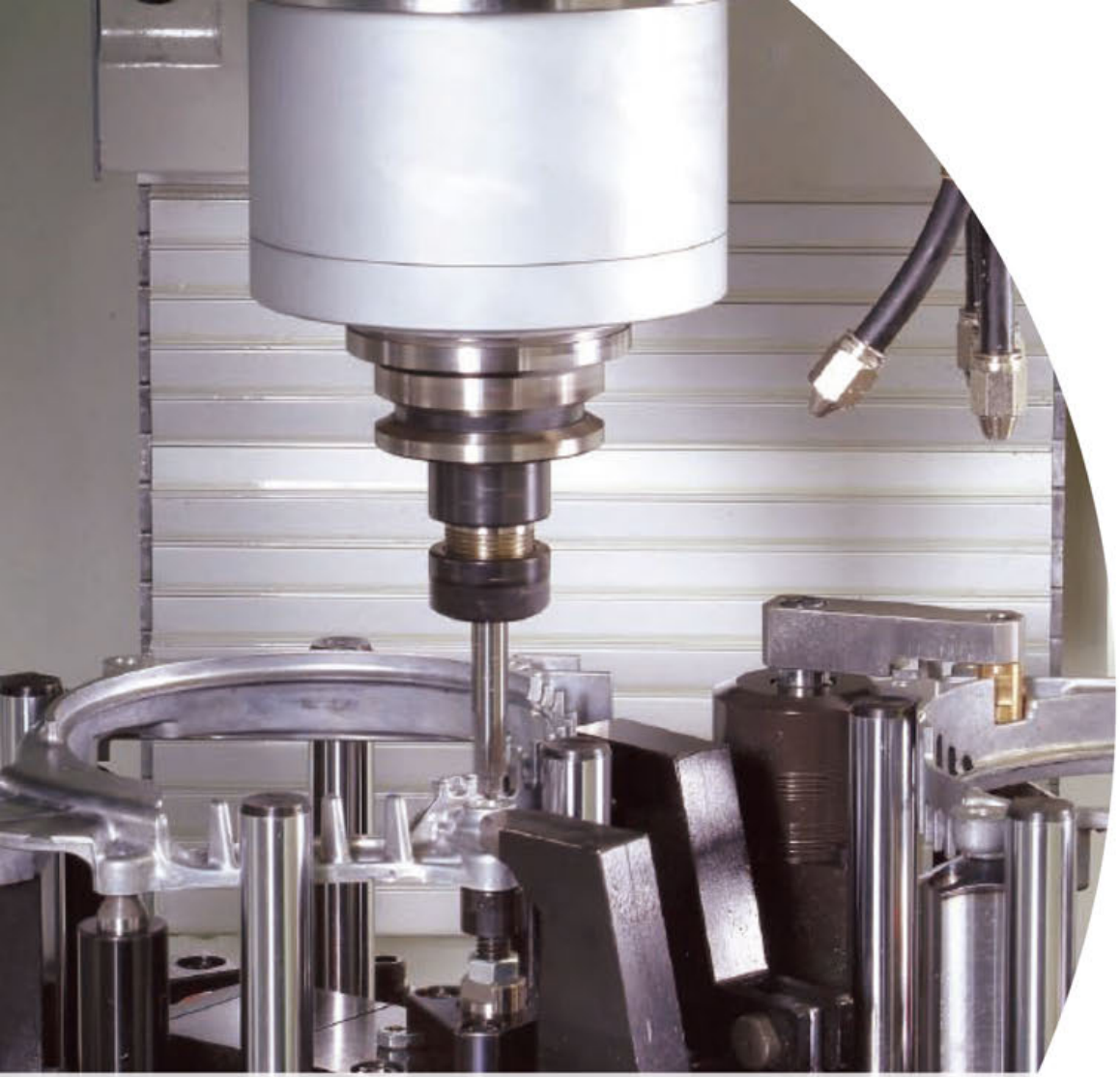

QUICK-TECH

Intention to make Engineering Technology

CNC MACHINE TOOLS MANUFACTURING

www.quicktech.com.tw

Q5

Designed for drilling and tapping more holes on workpieces, such as 3C parts, hardware, molds, automotive parts and graphite.

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Highlight :

- Base and column are designed with great span between slideways for maximum stability.
- 48 meters rapid traverse on three axes greatly reduces machining time.
- Increased height of column has sufficient space to mount the 4th and 5th axes.
- High speed servo drive tool change system is fast and stable that reduces non-cutting time.
- Rear chip removing design features excellent chip removing angle and large flow chip flushing system.

Q6

3C, hardware, molds, automotive parts, and medical devices

Highlight :

- Base and column are designed with great span between slideways for maximum stability.
- The short nose high speed spindle provides sensitive response with 4,000 rpm tapping operations.
- 48 meters rapid traverse on three axes greatly reduces machining time.
- Stable automatic tool change system not only reduces non-cutting time, but also extends spindle life.
- Rear chip removing design features excellent chip removing angle and large flow chip flushing system.

Q7

Hardware, molds, automotive parts, communication and medical devices

Intention to make Engineering Technology

Highlight :

- The short nose spindle presents outstanding rigidity. It also increases efficiency while lowering tool wear.
- 48 meters rapid traverse on three axes greatly reduces machining time.
- High speed, silent ball screw and roller type linear way exhibit high speed, high accuracy and high rigidity features.
- Stable automatic tool change system not only reduces non-cutting time, but also extends spindle life.
- Front side chip exhaust with optimal chip exhausting angles and extra large chip flushing rate.

Q8

Hardware, molds, automotive parts, communication and medical devices.

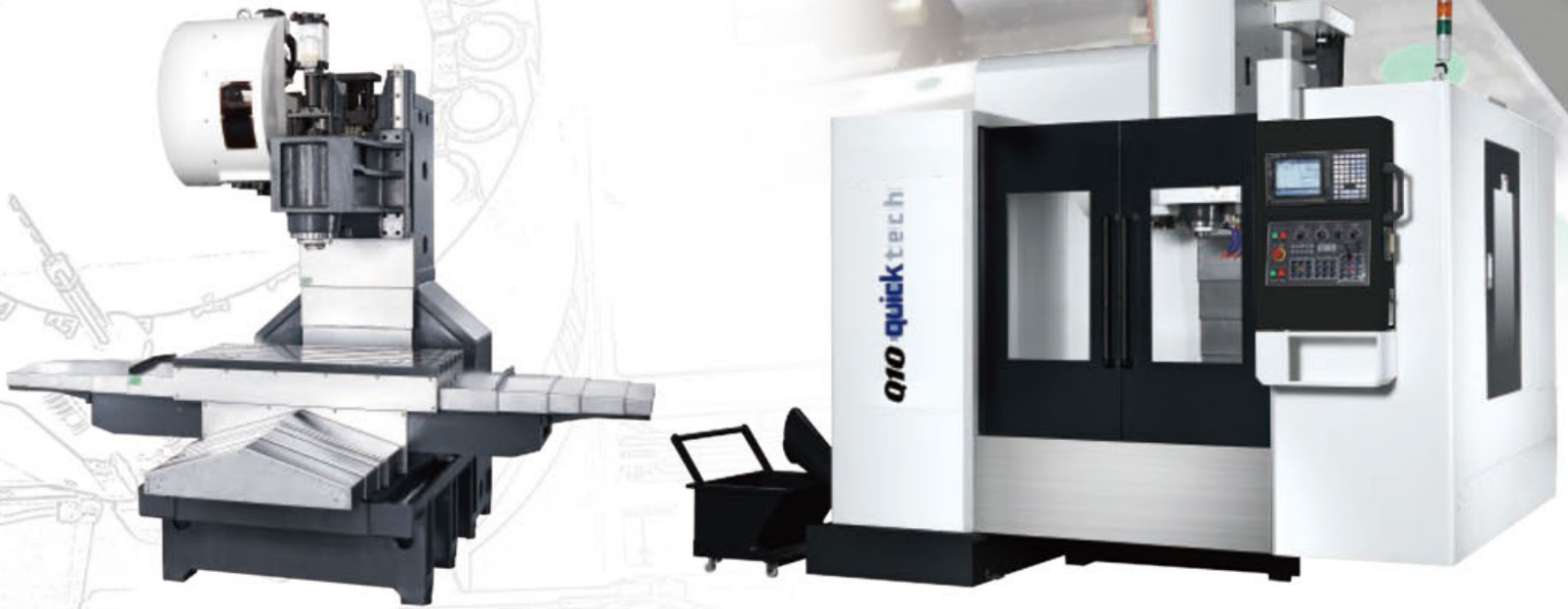
Intention to make Engineering Technology

Highlight :

- The short nose spindle presents outstanding rigidity. It also increases efficiency while lowering tool wear.
- 48 meters rapid traverse on three axes greatly reduces machining time.
- High speed, silent ball screw and roller type linear way exhibit high speed, high accuracy and high rigidity features.
- Stable automatic tool change system not only reduces non-cutting time, but also extends spindle life.
- Front side chip exhaust with optimal chip exhausting angles and extra large chip flushing rate.

Q10

Hardware, molds, automotive parts, communication, medical devices and aerospace.



Highlight :

- The optional bed construction design is able to resist inertia generated by high "G" with maximum stability.
- The short nose spindle presents outstanding rigidity. It also increases efficiency while lowering tool wear.
- 36 meters rapid traverse on three axes greatly reduces machining time.
- Stable automatic tool change system not only reduces non-cutting time, but also extends spindle life.
- Front side chip exhaust with optimal chip exhausting angles and extra large chip flushing rate.

Intention to make Engineering Technology

V10/V12 bigger dimensions

With a working area up to 1200 x 600 x 650 mm, the vertical machining centre is designed to work on medium or big workpieces.

The major parts on this series are constructed of high-quality robust FC30 meehanite castings. 3 axes equipped with 40mm diameter C3 class high precision ballscrews, mounted with double ballscrew support bearings (P4 class), ensure high positioning accuracy and durability.

Intention to make Engineering Technology

V13/V15

bigger dimensions

With a working area of 1300 x 700 x 750 mm (V15:1500 x 700 x 700 mm), the vertical machining centre is also designed to work on big workpieces.

Directly connected with ballscrew and AC servo motors, the high precision coupling offers the best rigidity and keeps the accuracy of axial slide assembly under high speed movement. The machine is well equipped and has a favorable cost-performance ratio.

Intention to make Engineering Technology

V20/V25

the biggest range of all Quick-TECH milling centers

Machining of workpieces up to 2000 x 850 x 710 mm (V25:2500 x 850 x 710 mm) is possible with V20/V25. With Mitsubishi CNC-Control, 3 axes equipped with 40mm diameter C3 class high precision ballscrews, 8,000 r.p.m as well as a tool storage capacity of 24 tools the machine features outstanding equipment and high quality.

Intention to make Engineering Technology

Specification





Machine Type		Q5	Q6	Q7	Q8	Q10
Control unit		Mitsubishi Controller : M70				
Travel	X-axis travel	500 mm	600 mm	700 mm	800 mm	1000 mm
	Y-axis travel	400 mm	400 mm	500 mm	500 mm	600 mm
	Z-axis travel	300 mm	450 mm	550 mm	550 mm	600 mm
Spindle	Spindle nose to table	200~500 mm	170~620 mm	120~670 mm	120~670 mm	120~720 mm
	Type of spindle	BT-30	BT-40	BT-40	BT-40	BT-40
	Spindle transmission	Belt Drive	Belt Drive	Belt Drive	Belt Drive	Belt Drive
	Spindle R.P.M.	10,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm	8,000 rpm
	Spindle motor	5.5 kw	5.5 kw	7.5 kw	7.5 kw	11 kw
Feedrate	X/Y/Z rapid traverse	48 / 48 / 48 M/min	48 / 48 / 48 M/min	48 / 48 / 48 M/min	48 / 48 / 48 M/min	36 / 36 / 36 M/min
	Three axes ball screws (mm)	⌀32 / P16 / C3	⌀32 / P16 / C3	⌀36 / P16 / C3	⌀36 / P16 / C3	⌀40 / P12 / C3
	Three axes linear guide(P class)	X, Y-axis linear guide: ball type 30 mm x 4 blocks Z-axis linear guide: ball type 35mm x 4 blocks		X, Y, Z-axis linear guide:roller type 35 mm x 4 blocks		X-axis linear guide: roller type 35 mm x 4 blocks Y, Z-axis linear guide: roller type 45 mm x 4 blocks
	Three axes transmission method	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive
	Cutting feed rate	1~10,000 mm/min	1~10,000 mm/min	1~10,000 mm/min	1~10,000 mm/min	1~10,000 mm/min
Table	Table size (mm)	620x420	700x420	800x450	1000x450	1200x550
	T-slot (W×No.×Pitch)	18x3x125 mm	18x3x125 mm	18x3x130 mm	18x3x130 mm	18x5x95 mm
	Table loading capacity	250 kg	250 kg	400 kg	500 kg	600 kg
ATC	Tool selection method	Disc type	Arm type	Arm type	Arm type	Arm type
	No. of tools	14 pcs	20 pcs	24 pcs	24 pcs	24 pcs
	Max. tool weight	3 kgs	7 kgs	7 kgs	7 kgs	7 kgs
Coolant system and power	Coolant tank capacity	200 L	200 L	220 L	220 L	250 L
	Air pressure	6 kg	6 kg	6 kg	6 kg	6 kg
	Power requirement	10 KVA	15 KVA	15 KVA	15 KVA	20 KVA
Machine size	machine size (LxWxH) (mm)	1600 X 2100 X 2900	1600 X 2100 X 2900	2000 X 2450 X 3100	2450 X 2400 X 2700	2950 X 2500 X 2950
	Max. machine weight	2800 kg	3300 kg	4500 kg	4500 kg	5600 kg

Machine Type	V10	V12	V13	V15	V20	V25
Control unit	Mitsubishi Controller : M70					
Spindle Speed	250-10000rpm		250-8000rpm		250-8000rpm	
Spindle Type	BT-40		BT-40		BT-40 / BT-50 (OPTION)	
Spindle Shaft Hardness	HRC58~62 °		HRC58~62 °		HRC58~62 °	
Spindle Orientation	Encoder		Encoder		Encoder	
Spindle Power	7.5KW Servo Spindle Motor		11KW Servo Spindle Motor (15KW OPTION)		15KW Servo Spindle Motor	
Clamping Force	350~400KG		350~400KG		350~400KG	
Table Dimension	1200mm x 500mm	1300mm x 600mm	1500mm x 660mm	1800mm x 660mm	2300mm x 750mm	2800mm x 750mm
Work area	1 00mm x 500mm	1200mm x 600mm	1300mm x 700mm	1500mm x 700mm	2000mm x 850mm	2500mm x 850mm
Max. Loading Capacity	750Kg	1000Kg	1050Kg	1300Kg	1800Kg	
Spindle Nose to Table	100mm~670mm	80mm~770mm	130mm~800mm		100mm~810mm	
Spindle Center to Colum	550mm	650mm	750mm		850mm	
Table Surface to Floor	1000mm	1050mm	1050mm		1150mm	
T-Slot (W×No.×Pitch)	16mm x 100mm x 4	18mm x 100mm x 5	18mm x 100mm x 5		18mm x 100mm x 6	
X / Y / Z axis Travel	1000mm / 500mm / 570mm	1200mm / 600mm / 610mm	1300mm / 700mm / 700mm	1500mm / 700mm / 700mm	2000mm / 850mm / 710mm	2500mm / 850mm / 710mm
X / Y / Z axis Rapid Traverse	36 / 36 / 36M /min	36 / 36 / 36M /min	36 / 36 / 36M /min		36 / 36 / 36M /min	
X / Y / Z axis Servo motor	Mitsubishi AC Servo 2.0KW	Mitsubishi AC Servo 3.0KW	Mitsubishi AC Servo 3.5KW		Mitsubishi AC Servo 3 .5KW	
Cutting Feed	20~8000mm / min		20~8000mm / min	0050~8000mm / min	0050~6000 rpm	
Axis Transmission	Direct Drive		Direct Drive		Belt Drive	
Balls screw Diameter	40mm		40mm		50mm	
Accuracy	C3		C3		C3	
Command Position	0.001mm		0.001mm		0.001mm	
Repeatability	0.005mm		0.005mm		0.005mm	
ATC Type	Arm Type / Armless(OPTION)		Arm Type / Armless(OPTION)		Arm Type / Armless(OPTION)	
Number of tools	24 tools		24 tools		24 tools	
Tool Selection	Rondam		Random		Random	
Tool Changing Time	2sec		2sec		2sec	
Tool Size (Dia x Length)	75mm x 250mm		75mm x 250mm	100mm x 250mm	100mm x 250mm	
Max. Tool Weight	7Kg		7Kg		7Kg	
Lubrication Type	AUTO		AUTO		AUTO	
Position of Lubrication	Slide Way&Ball Screw		Slide Way&Ball Screw		Slide Way&Ball Screw	
Lubricator Tank	2Liters		2Liters		2Liters	
Cycle time of Lubrication	15min		15min		15min	
Lubricator Power	120W		120W		120W	
Machine Length/Width/Height	3350mm/2500mm/2600mm	3550mm/2600mm/3000mm	3600mm/3000mm/3150mm	3850mm/3000mm/3150mm	4000mm/3000mm/3150mm	4500mm/3000mm/3150mm
Machine Weight	5800kg	6500kg	8200kg	8600kg	9450kg	9800kg

QUICK-TECH

Quick-TECH Machinery Co., Ltd.

2014

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